

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/007496

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C01B3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, COMPENDEX, INSPEC, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 248 649 A (MOSLEY JR WILBUR C) 28 September 1993 (1993-09-28) the whole document	1-6
Y	HEUNG L K ET AL: "Silica embedded metal hydrides" JOURNAL OF ALLOYS AND COMPOUNDS, ELSEVIER SEQUOIA, LAUSANNE, CH, vol. 293-295, 20 December 1999 (1999-12-20), pages 446-451, XP004364665 ISSN: 0925-8388 the whole document	1,2,4
Y	US 5 958 098 A (HEUNG LEUNG K) 28 September 1999 (1999-09-28) the whole document	1,4

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

15 October 2004

Date of mailing of the international search report

02/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 411 928 A (ENZ GLENN L ET AL) 2 May 1995 (1995-05-02) the whole document	1,4
Y	US 6 528 441 B1 (HEUNG LEUNG K ET AL) 4 March 2003 (2003-03-04) claims 1,3,11 column 2, line 35 - column 3, line 35	1,2,4,6
P,A	GUAY P ET AL: "On the control of carbon nanostructures for hydrogen storage applications" CARBON, XX, XX, vol. 42, no. 11, 2004, pages 2187-2193, XP004521222 ISSN: 0008-6223 Abstract; Introduction; Final paragraph of 3.2	
Y	DE 101 63 697 A (STUDIENGESELLSCHAFT KOHLE MBH) 3 July 2003 (2003-07-03) cited in the application claims 1-17 paragraphs '0001! - '0011! examples	1-5
Y	US 4 798 718 A (BOGDANOVIC BORISLAV) 17 January 1989 (1989-01-17) column 2, lines 24-55 examples	1-5
Y	N. L. ROSI, J. ECKERT, M. EDDAOUDI, D. T. VODAK, J. KIM, M. O'KEEFFE, O. M. YAGHI: "Hydrogen Storage in Microporous Metal-Organic Frameworks" SCIENCE, vol. 300, 16 May 2003 (2003-05-16), pages 1127-1129, XP002301008 the whole document	4

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PCT/EP2004/007496

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5248649	A	28-09-1993	NONE	
US 5958098	A	28-09-1999	NONE	
US 5411928	A	02-05-1995	NONE	
US 6528441	B1	04-03-2003	NONE	
DE 10163697	A	03-07-2003	DE 10163697 A1 CA 2471362 A1 WO 03053848 A1 EP 1456117 A1	03-07-2003 03-07-2003 03-07-2003 15-09-2004
US 4798718	A	17-01-1989	DE 3247360 A1 AT 46305 T AT 77602 T AU 568524 B2 AU 2275483 A CA 1225077 A1 CA 1233157 A2 DE 3380559 D1 DE 3382583 D1 DK 145791 A DK 592283 A , B, EP 0112548 A2 EP 0316968 A2 ES 8406371 A1 IE 58026 B1 IE 58010 B1 JP 59174501 A US 4554152 A US 5199972 A US 5162108 A	05-07-1984 15-09-1989 15-07-1992 07-01-1988 28-06-1984 04-08-1987 23-02-1988 19-10-1989 30-07-1992 12-08-1991 23-06-1984 04-07-1984 24-05-1989 01-11-1984 16-06-1993 16-06-1993 03-10-1984 19-11-1985 06-04-1993 10-11-1992